Communications Interface Card: Echo Suppression (11/96)

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Security:       Everyone
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TOPIC ---

The Communications Interface allows a BASIC program to communicate with another
computer. Normally, the information coming in from the other computer will be
displayed on the screen, which is not always desirable. The two routines below
will disable the echo feature but you must decide which best fits your program.

DISCUSSION --

Machine Language

First determine which slot the interface card is in before typing in the
software patch. The patch is customized for this slot number and will not work
if used with a different configuration. Enter the patch using the values from
the table for words in brackets, < >.

SLOT	1	2	3	4	5	6	7
STAT	9E	AE	BE	CE	DE	EE	FE
DATA	9F	AF	BF	CF	DF	EF	FF

Enter the monitor with CALL -155 and type

```
3A0:A9 03
3A2:8D <STAT> C0
3A5:A9 11
3A7:8D <STAT> C0
3AA:A9 B5
3AC:85 38
3AE:A9 03
3B0:85 39
3B2:4C EA 03
```

```
3B5:91 28
3B7:AD <STAT> C0
3BA:10 FB
3BC:AD <DATA> C0
3BF:09 80
3C1:60
3C2:00 00 00 00 00
```

To check your typing, type "3A0L", and compare your listing to the one for slot
2 shown below.

```
03A0-   A9 03      LDA    #$03
03A2-   8D AE C0   STA    $C0AE
03A5-   A9 11      LDA    #$11
03A7-   8D AE C0   STA    $C0AE
03AA-   A9 B5      LDA    #$B5
03AC-   85 38      STA    $38
03AE-   A9 03      LDA    #$03
03B0-   85 39      STA    $39
03B2-   4C EA 03   JMP    $03EA
03B5-   91 28      STA    ($28),Y
03B7-   AD AE C0   LDA    $C0AE
03BA-   10 FB      BPL    $03B7
03BC-   AD AF C0   LDA    $C0AF
03BF-   09 80      ORA    #$80
03C1-   60         RTS
03C2-   00         BRK
03C3-   00         BRK
03C4-   00         BRK
03C5-   00         BRK
03C6-   00         BRK
```

Now return to BASIC by typing 3D0G

Save the patch to disk BSAVE PATCH, A$3A0, L$21:

Using the patch

The first time you use the interface you must load the patch into memory and
initialize the interface. This can be done from a BASIC program by adding the
following lines.

```
100 PRINT D$;"BLOAD PATCH": CALL 928  (loads patch and turns off echo)
200 PRINT D$;"IN#0"                   (will re-enable the Apple keyboard)
300 CALL 938                          (reconnects the interface)
```


Video Echo

The video echo can be stopped by fooling the interface into thinking it is in
full duplex terminal mode, as running the following BASIC program demonstrates.

```
10 SLOT = 2
20 PRINT CHR$(4);"PR# SLOT"
30 PRINT
40 POKE 1912 + SLOT,145
50 PRINT "THIS WON'T ECHO"
60 POKE 1912 + SLOT,11
70 PRINT "THIS WILL ECHO"
90 PRINT CHR$(4);"PR# 0"
```

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18 Nov 1996 - Reviewed for technical accuracy, revised formatting.

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